

Yizhou Sun

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Los Angeles, CA, 90095

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Research Interests

Information and social network analysis, data mining, database systems, statistics, information retrieval, machine learning and network science, with a focus on modeling novel problems and proposing scalable algorithms for large-scale, real-world applications, including but not limited to: social computing, social media, business intelligence, medical and health informatics, and cyber-physical systems.

Education

University of Illinois at Urbana-Champaign

Ph.D., Computer Science

Thesis: Mining Heterogeneous Information Networks (ACM SIGKDD 2013 Dissertation Award)

Advisor: Prof. Jiawei Han

Urbana-Champaign, IL

Aug. 2007 - Dec. 2012

Peking University

M.Eng., Department of Intelligence Science

Beijing, China

Sept. 2004 - July 2007

Peking University

B.Sc., Computer Science and B.Sc., Statistics

Beijing, China

Sept. 2000 - June 2004

Work Experience

Department of Computer Science, University of California, Los Angeles

Assistant Professor

Los Angeles, CA

June 2016 - Present

College of Computer and Information Science, Northeastern University

Assistant Professor

Boston, MA

Jan. 2013 - June 2016

Intern and Research Experience

IBM Watson Research Center

Research Intern

Mentor: Dr. Charu C. Aggarwal

Hawthorne, NY

May 2010 - Aug. 2010

Microsoft Research Asia

Research Intern

Mentors: Dr. Ning Liu and Dr. Jun Yan

Beijing, China

Apr. 2006 - Oct. 2006

Spatial Database Lab, Dept. of Intelligence Science, PKU

Research Assistant

Advisor: Prof. Kunqing Xie

Beijing, China

Nov. 2003 - July 2007

Selected Honors and Awards

Distinguished Alumni Educator Award, CS @ ILLINOIS Alumni Awards, 2016
 Best Paper Award, Tsinghua Science and Technology 2015 Best Paper Award, 2016
 NSF Faculty Early Career Development (CAREER) Award, 2015
 Yahoo ACE (Academic Career Enhancement) Award, 2013
 ACM SIGKDD 2013 Dissertation Award, 2013
 Yahoo!-DAIS Research Excellence Award, UIUC, 2013
 Best Student Paper Award, ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'12), 2012
 KDD 2012 Student Travel Award, 2012
 WSDM Bing Student Travel Grant Award, 2012
 Data Mining Research Awards, Data Mining Group, UIUC, Fall 2011, Spring 2011, Spring 2009, Fall 2008
 DSSI Yahoo! Award: Best Data Sciences Summer Institute Project (As Teaching Assistant and Project Leader), UIUC, Summer 2011, 2012
 Best Paper Award, Int. Conf. on Advances in Social Networks Analysis and Mining (ASONAM'11), July 2011
 Conference Travel Grant Award, UIUC, 2009
 Microsoft Graduate Fellowship Finalist, 2009

Teaching Experience

Course: CS249 Special Topics: Advanced Data Mining <i>Instructor</i>	UCLA <i>Spring 2017</i>
Course: CS249 Special Topics: Mining Information and Social Networks <i>Instructor</i>	UCLA <i>Winter 2017</i>
Course: CS6220 Data Mining Techniques <i>Instructor</i>	Northeastern University <i>Spring 2016</i>
Course: CS6220 Data Mining Techniques <i>Instructor</i>	Northeastern University <i>Fall 2015</i>
Course: CS6220 Data Mining Techniques <i>Instructor</i>	Northeastern University <i>Fall 2014</i>
Course: CS7280 Special Topics in Data <i>Instructor</i>	Northeastern University <i>Spring 2014</i>
Course: CS6220 Data Mining Techniques <i>Instructor</i>	Northeastern University <i>Fall 2013</i>
Course: CS6220 Data Mining Techniques <i>Instructor</i>	Northeastern University <i>Spring 2013</i>
Course: Database Systems <i>Co-Instructor</i>	University of Illinois at Urbana-Champaign <i>Fall 2011</i>

Conference Tutorials

1. **Yizhou Sun**, Xiang Ren, and Hongzhi Yin, “*Context-Rich Recommendation: Integrating Links, Text, and Spatio-Temporal Dimensions*,” Proc. of 2017 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD'17**), Halifax, Nova Scotia, Canada, August 2017.
2. **Yizhou Sun**, Hongzhi Yin, and Xiang Ren, “*Recommendation in Context-Rich Environment: An Information Network Analysis Approach*,” Proc. of 26th International World Wide Web Conference (**WWW'17**), Perth, Australia, April, 2017.

3. Jiawei Han, Heng Ji, and **Yizhou Sun**, “*Successful Data Mining Methods for NLP*,” Proc. of 53rd Annual Meeting of the Association for Computational Linguistics (**ACL’15**), Beijing, China, Jul. 2015.
4. **Yizhou Sun**, Jiawei Han, Xifeng Yan, and Philip S. Yu, “*Mining Knowledge from Interconnected Data: A Heterogeneous Information Network Analysis Approach*,” PVLDB 5(12): 2022-2023, 2012 Int. Conf. on Very Large Data Bases (**VLDB’12/PVLDB**), Istanbul, Turkey, Aug. 2012.
5. **Yizhou Sun**, Jiawei Han, Xifeng Yan, and Philip S. Yu, “*On the Power of Heterogeneous Information Networks*,” Proc. of 2012 Int. Conf. on Advances in Social Network Analysis and Mining (**ASONAM’12**), Istanbul, Turkey, Aug. 2012.
6. Jiawei Han, **Yizhou Sun**, Xifeng Yan, Philip S. Yu, “*Mining Knowledge from Data: An Information Network Analysis Approach*,” 2012 IEEE Int. Conf. on Data Engineering (**ICDE’12**), Arlington, VA, Apr. 2012.
7. Jiawei Han, **Yizhou Sun**, Xifeng Yan, and Philip S. Yu, “*Mining Heterogeneous Information Networks*,” 2010 ACM SIGKDD Conf. on Knowledge Discovery and Data Mining (**KDD’10**), Washington, D.C., July 2010.
8. Jiawei Han, **Yizhou Sun**, Xifeng Yan, and Philip S. Yu, “*Mining Knowledge from Databases: An Information Network Analysis Approach*,” 2010 ACM SIGMOD Int. Conf. on Management of Data (**SIGMOD’10**), Indianapolis, Indiana, June 2010.

Presentations/Invited Talks

1. “Embedding Approaches for Mining Heterogeneous Information Networks,” Invited Talk at NIH BD2K Machine Learning Working Group, WebEx, July 2017.
2. “Functions and Operators in Graph/Network Mining,” Invited Talk at CDSC/InTrans Project Semi-Annual Review Meeting, Los Angeles, June 2017.
3. “Recommendation with Spatio-Temporal Information,” Invited Talk at Workshop for Temporal and Spatial Analysis of Social Media Data, ICA’17, San Diego, May 2017.
4. “Recommendation in Context-Rich Environment: An Information Network Analysis Approach,” Tutorial Talk at WWW’17, Perth, Australia, Apr. 2017.
5. “User Stance Prediction via Online Behavior Mining,” Keynote at IWSC Social Computing Workshop with WWW’17, Perth, Australia, Apr. 2017.
6. “Task-Guided Embedding in Heterogeneous Information Networks,” Invited Talk at HeartBD2K Center, Los Angeles, Mar. 2017.
7. “Recommendation via Information Network Approach,” Invited Talk at CMU Tepper Business School, Pittsburgh, Mar. 2017.
8. “Recommendation via Information Network Approach,” Invited Talk at Snapchat, Los Angeles, Mar. 2017.
9. “Task-guided and Path-augmented Heterogeneous Network Embedding for Author Identification,” Conference Talk at WSDM’17, Cambridge, UK, Feb. 2017.
10. “Task-Guided Heterogeneous Information Network Embedding,” Invited Talk at UCSD, San Diego, Nov. 2016.
11. “Task-Guided Heterogeneous Information Network Embedding,” Invited Talk at USC Information Sciences Institute, Los Angeles, Nov. 2016.
12. “Task-Guided Heterogeneous Information Network Embedding,” Invited Talk at UIUC, Urbana, Oct. 2016.
13. “Network Embedding in Mining Information Networks,” Invited Talk at Ancestry, San Francisco, Aug. 2016.
14. “Node Representation in Mining Heterogeneous Information Networks,” Keynote Speech at KDD MLG Workshop, San Francisco, Aug. 2016.
15. “Node Representation in Mining Heterogeneous Information Networks,” Invited Talk at Shandong University, Jinan, China, July 2016.

16. “Node Representation in Mining Heterogeneous Information Networks,” Invited Talk at Chinese Academy of Sciences, Beijing, China, July 2016.
17. “Node Representation in Mining Heterogeneous Information Networks,” Invited Talk at Peking University, Beijing, China, July 2016.
18. “Node Representation in Mining Heterogeneous Information Networks,” Invited Talk at Tsinghua University, Beijing, China, July 2016.
19. “Node Representation in Mining Heterogeneous Information Networks,” Invited Talk at Microsoft Research Asia, Beijing, China, July 2016.
20. “Applications of Mining Heterogeneous Information Networks,” Invited Talk at Boston University Data Management Seminar, Boston, MA, Oct. 2015.
21. “Applications of Mining Heterogeneous Information Networks,” Invited Talk at UMASS Dartmouth Computational Science Seminars, North Dartmouth, MA, Oct. 2015.
22. “Applications of Mining Heterogeneous Information Networks,” Invited Talk at Beijing University of Posts and Telecommunications, Beijing, China, Jul. 2015.
23. “Applications of Mining Heterogeneous Information Networks,” Invited Talk at Tsinghua University, Beijing, China, Oct. 2015.
24. “Applications of Mining Heterogeneous Information Networks,” Invited Talk at Microsoft Research Asian, Beijing, China, June 2015.
25. “Mining Information Networks by Modeling Heterogeneous Link Types,” Invited Talk at UMASS Medical School Quantitative Methods Core Methods Seminar, Worcester, MA, May, 2015.
26. “Mining Heterogeneous Information Networks,” Invited Talk at Boston University Data Management Seminar, Boston, MA, Sept. 2014.
27. “Mining Information Networks by Modeling Heterogeneous Link Types,” Invited Talk at NEC Lab, Princeton, NJ, Aug. 2014.
28. “Topic-Factorized Ideal Point Estimation Model for Legislative Voting Network,” Invited Talk at MIT Lincoln Labs GraphEx Symposium, Dedham, MA, Aug. 2014.
29. “Meta-Path-Based Search and Mining in Heterogeneous Information Networks,” Invited Talk at UMass Lowell CS colloquium, Lowell, MA, Mar. 2014.
30. “Semantic Frame-Based Document Representation for Comparable Corpora,” ICDM’13 Conference Talk, Dallas, TX, Dec. 2013.
31. “Modeling Topic Diffusion in Multi-Relational Bibliographic Information Networks,” the 5th workshop on information networks (WIN’13) at NYU, New York City, NY, Oct. 2013.
32. “Meta-Path-Based Search and Mining in Heterogeneous Information Networks,” CCNR Seminar at Barabasi Group, Northeastern University, Boston, MA, June 2013.
33. “Similarity Search and Relationship Prediction in Heterogeneous Information Networks,” INARC seminar for NS-CTA, Urbana, IL, Nov. 2012.
34. “Integrating meta-path selection with user-guided object clustering in heterogeneous information networks,” DAIS Seminar at UIUC, Urbana, IL, Oct. 2012.
35. “Mining Knowledge from Interconnected Data: A Heterogeneous Information Network Analysis Approach,” VLDB’12 Tutorial Talk, Istanbul, Turkey, Aug. 2012.
36. “Relation Strength-Aware Clustering of Heterogeneous Information Networks with Incomplete Attributes,” VLDB’12 Conference Talk, Istanbul, Turkey, Aug. 2012.
37. “On the Power of Heterogeneous Information Networks,” ASONAM’12 Tutorial Talk, Istanbul, Turkey, Aug. 2012.

38. “Integrating meta-path selection with user-guided object clustering in heterogeneous information networks,” KDD’12 Conference Talk, Beijing, China, Aug. 2012.
39. “Meta-Path-Based Search and Mining in Heterogeneous Information Networks,” Mining Data Semantics in Information Networks Workshop (KDD-MDS’12), Beijing, China, Aug. 2012.
40. “Mining Knowledge from Data: An Information Network Analysis Approach”
 - ICDE’12 Conference Tutorial, Arlington, VA, Apr. 2012
41. “Relation Strength-Aware Clustering of Heterogeneous Information Networks with Incomplete Attributes”
 - DHS-CCICADA (The Homeland Security Center for Command, Control, and Interoperability Center for Advanced Data Analysis) Research Retreat Talk, UIUC, Mar. 2012
42. “When Will It Happen? — Relationship Prediction in Heterogeneous Information Networks”
 - WSDM’12 Conference Talk, Seattle, Feb. 2012
43. “PathSim: Meta Path-Based Top-K Similarity Search in Heterogeneous Information Networks”
 - Yahoo!-DAIS Seminar Talk, UIUC, Sept. 2011
 - VLDB’11 Conference Talk, Seattle, Aug. 2011
44. “Relationship Prediction in Heterogeneous Information Networks”
 - DHS-CCICADA (The Homeland Security Center for Command, Control, and Interoperability Center for Advanced Data Analysis) Research Retreat Talk, Baltimore, Apr. 2011
45. “Community Evolution Detection in Dynamic Heterogeneous Information Networks”
 - Conference Talk in KDD Workshop on Mining and Learning with Graphs (MLG’10), Washington, D.C., July 2010
46. “A New Data Mining Frontier: Mining Heterogeneous Information Networks”
 - Prof. Thomas S. Huang’s Group Seminar, ECE, UIUC, Apr. 2010
47. “iTopicModel: Information Network-Integrated Topic Modeling”
 - DHS-CCICADA (The Homeland Security Center for Command, Control, and Interoperability Center for Advanced Data Analysis) Research Retreat Talk, Baltimore, Mar. 2010
 - Yahoo!-DAIS Seminar Talk, UIUC, Feb. 2010
 - ICDM’09 Conference Talk, Miami, Dec. 2009
48. “Ranking-Based Clustering of Heterogeneous Information Networks with Star Network Schema”
 - Yahoo!-DAIS Seminar Talk, UIUC, Sept. 2009
 - KDD’09 Conference Talk, Paris, July 2009
49. “RankClus: Integrating Clustering with Ranking for Heterogeneous Information Network Analysis”
 - DHS University Network Summit, Washington, D.C., Mar. 2009
 - Yahoo!-DAIS Seminar Talk, UIUC, Mar. 2009
50. “BibNetMiner: Mining Bibliographic Information Networks”
 - SIGMOD’08 System Demo Presentation, Vancouver, June 2008

Publications

Research Book

1. **Yizhou Sun** and Jiawei Han, *Mining Heterogeneous Information Networks: Principles and Methodologies*, Morgan & Claypool Publishers, 2012.

Book Chapters

2. **Yizhou Sun** and Jiawei Han, “*Ranking Methods for Networks*,” in Encyclopedia of Social Network Analysis and Mining, Springer, 2014, pp. 1488-1497.
3. Hongbo Deng, **Yizhou Sun**, Yi Chang, and Jiawei Han, “*Probabilistic Models for Classification*,” in Charu C. Aggarwal (eds.), Data Classification: Algorithms and Applications, CRC Press, 2014, pp. 65-86.
4. Yang Yang, **Yizhou Sun**, Saurav Pandit, Nitesh V. Chawla, and Jiawei Han, “*Prospective on Measurement Metrics for Community Detection Algorithms*,” in Tansel Ozyer, Zeki Erdem, Jon Rokne and Suheil Khoury (eds.), Mining Social Networks and Security Informatics, Springer, 2013, pp. 227-242.
5. **Yizhou Sun**, Hongbo Deng and Jiawei Han, “*Probabilistic Models for Text Mining*,” in Charu C. Aggarwal and ChengXiang Zhai (eds.), Mining Text Data, Kluwer Academic Publishers, 2012, pp. 257-294.
6. **Yizhou Sun** and Jiawei Han, “*Integrating Clustering and Ranking for Heterogeneous Information Network Analysis*,” in Philip S. Yu, Jiawei Han and Christos Faloutsos (eds.), Link Mining: Models, Algorithms and Applications, Springer, 2010, pp. 439-474.

Journal papers

7. Weiqing Wang, Hongzhi Yin, Ling Chen, **Yizhou Sun**, Shazia Wasim Sadiq, Xiaofang Zhou, “*ST-SAGE: A Spatial-Temporal Sparse Additive Generative Model for Spatial Item Recommendation*,” ACM TIST 8(3): 48:1-48:25, 2017.
8. Chuan Shi, Yitong Li, Jiawei Zhang, **Yizhou Sun**, and Philip S. Yu, “*A Survey of Heterogeneous Information Network Analysis*,” IEEE Trans. Knowl. Data Eng. 29(1): 17-37, 2017.
9. Peng Xia, Shuangfei Zhai, Benyuan Liu, **Yizhou Sun**, Cindy X. Chen: “*Design of reciprocal recommendation systems for online dating*,” Social Netw. Analys. Mining 6:32, 2016.
10. Gang Fu, Ying Ding, Abhik Seal, Bin Chen, **Yizhou Sun**, and Evan Bolton, “*Predicting drug target interactions using meta-path-based semantic network analysis*,” BMC Bioinformatics 17:160, 2016.
11. Hongzhi Yin, Bin Cui, **Yizhou Sun**, Zhiting Hu, Ling Chen, “*LCARS: A Spatial Item Recommender System*,” ACM Trans. Inf. Syst., 32(3):11, June, 2014.
12. **Yizhou Sun**, Jie Tang, Jiawei Han, Cheng Chen, and Manish Gupta, “*Co-Evolution of Multi-Typed Objects in Dynamic Heterogeneous Information Networks*,” IEEE Trans. on Knowledge and Data Engineering (TKDE), 26(12): 2942-2955, 2014.
13. **Yizhou Sun**, Brandon Norick, Jiawei Han, Xifeng Yan, Philip S. Yu, and Xiao Yu, “*PathSelClus: Integrating Meta-Path Selection with User-Guided Object Clustering in Heterogeneous Information Networks*,” ACM Transactions on Knowledge Discovery from Data (TKDD), 7(3):11:1-11:23, Sept. 2013.
14. **Yizhou Sun** and Jiawei Han, “*Meta-path-based search and mining in heterogeneous information networks*,” IEEE Tsinghua Science and Technology, 18(4): 329-338, Aug. 2013.
15. Jing Gao, Feng Liang, Wei Fan, **Yizhou Sun**, and Jiawei Han, “*A Graph-Based Consensus Maximization Approach for Combining Multiple Supervised and Unsupervised Models*,” IEEE Transactions on Knowledge and Data Engineering (TKDE), 25(1):15-28, Jan. 2013.
16. **Yizhou Sun** and Jiawei Han, “*Mining Heterogeneous Information Networks: A Structural Analysis Approach*,” SIGKDD Explorations, 14(2):20-28, Dec. 2012.
17. Lu-An Tang, Xiao Yu, Sangkyum Kim, Jiawei Han, Wen-Chih Peng, **Yizhou Sun**, Alice Leung, Thomas La Porta, “*Multidimensional Sensor Data Analysis in Cyber-Physical Systems: An Atypical Cube Approach*,” International Journal of Distributed Sensor Networks, Vol. 2012, May 2012 (19 pages).
18. **Yizhou Sun**, Charu C. Aggarwal, and Jiawei Han, “*Relation Strength-Aware Clustering of Heterogeneous Information Networks with Incomplete Attributes*,” PVLDB 5(5):394-405, 2012. (Also, Proc. 2012 Int. Conf. on Very Large Data Bases (VLDB’12/PVLDB), Istanbul, Turkey, Aug. 2012.)
19. **Yizhou Sun**, Jiawei Han, Xifeng Yan, Philip S. Yu, and Tianyi Wu, “*PathSim: Meta Path-Based Top-K Similarity Search in Heterogeneous Information Networks*,” PVLDB 4(11):992-1003, 2011. (Also, Proc. of 2011 Int. Conf. on Very Large Data Bases (VLDB’11/PVLDB), Seattle, WA, Aug. 2011.) (Acceptance rate: 100/553 = 18.1%)

Full Research Papers Published in Conference Proceedings

20. Ting Chen, **Yizhou Sun**, Yue Shi, and Liangjie Hong, “*On Sampling Strategies for Neural Network-based Collaborative Filtering*,” Proc. of 2017 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD’17**), Halifax, Nova Scotia, Canada, Aug. 2017.
21. Yupeng Gu, **Yizhou Sun**, and Jianxi Gao, “*The Co-Evolution Model for Social Network Evolving and Opinion Migration*,” Proc. of 2017 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD’17**), Halifax, Nova Scotia, Canada, Aug. 2017.
22. He Jiang, Yangqiu Song, Chenguang Wang, Ming Zhang, and **Yizhou Sun**, “*Semi-supervised Learning over Heterogeneous Information Networks by Ensemble of Meta-graph Guided Random Walks*,” Proc. of 2017 Int. Joint Conf. on Artificial Intelligence (**IJCAI’17**), Melbourne, Australia, Aug. 2017.
23. Rundong Li, Ningfang Mi, Mirek Riedewald, **Yizhou Sun**, and Yi Yao, “*A Case for Abstract Cost Models for Distributed Execution of Analytics Operators*,” Proc. of 19th Int. Conf. on Big Data Analytics and Knowledge Discovery (**DaWak’17**), Lyon, France, Aug. 2017.
24. Yupeng Gu, Ting Chen, **Yizhou Sun**, Bingyu Wang, “*Ideology Detection for Twitter Users with Heterogeneous Types of Links*,” Proc. of 2017 Int. Conf. on Social Computing, Behavioral-Cultural Modeling Prediction (**SBP’17**), Washington D.C., USA, July, 2017.
25. Zhengxing Chen, Su Xue, John Kolen, Navid Aghdaie, Kazi A Zaman, **Yizhou Sun**, Magy Seif El-Nasr, “*EOMM: An Engagement Optimized Matchmaking Framework*,” Proc. of the 26th Int. Conf. on World Wide Web (**WWW’17**), Perth, Australia, Apr. 2017.
26. Ting Chen and Yizhou Sun, “*Task-Guided and Path-Augmented Heterogeneous Network Embedding for Author Identification*,” Proc. of 2017 ACM Int. Conf. on Web Search and Data Mining (**WSDM’17**), Cambridge UK, Feb. 2017.
27. Zhengxing Chen, **Yizhou Sun**, Magy Seif El-Nasr, and Truong-Huy D. Nguyen, “*Player Skill Decomposition in Multiplayer Online Battle Arenas*,” In Int. Academic Conf. on Meaningful Play (**Meaningful Play 2016**), East Lansing, MI, Oct. 2016.
28. Yodsawalai Chodpathumwan, Amirhossein Aleyasen, Arash Termehchy, and Yizhou Sun, “*Towards Representation Independent Similarity Search Over Graph Databases*,” Proc. of the 25th ACM Int. Conf. on Information and Knowledge Management (**CIKM’16**), Indianapolis, IN, Oct. 2016.
29. Zhipeng Huang, Yudian Zheng, Reynold Cheng, **Yizhou Sun**, Nikos Mamoulis, and Xiang Li, “*Meta Structure: Computing Relevance in Large Heterogeneous Information Networks*,” Proc. of 2016 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD’16**), San Francisco, CA, Aug. 2016.
30. Ting Chen, Lu-An Tang, **Yizhou Sun**, Zhengzhang Chen, Kai Zhang, “*Entity Embedding-based Anomaly Detection for Heterogeneous Categorical Events*,” Proc. 25th Int. Joint Conf. on Artificial Intelligence (**IJCAI’16**), New York City, USA, Jul. 2016.
31. Xiaozhong Liu, Tian Xia, Yingying Yu, Chun Guo, **Yizhou Sun**, “*Cross Social Media Recommendation*,” Proc. of the 10th Int. AAAI Conf. on Web and Social Media (**ICWSM’16**), Cologne, Germany, May 2016.
32. Yupeng Gu, Bo Zhao, David Hardtke, **Yizhou Sun**, “*Learning Global Term Weights for Content-based Recommender Systems*,” Proc. of the 25th Int. Conf. on World Wide Web (**WWW’16**), Montreal, Canada, Apr. 2016.
33. Ting Chen, Lu-An Tang, **Yizhou Sun**, Zhengzhang Chen, Haifeng Chen, and Guofei Jiang, “*Integrating Community and Role Detection in Information Networks*,” Proc of 2016 SIAM Int. Conf. on Data Mining (**SDM’16**), Miami, FL, May 2016.
34. Chenguang Wang, **Yizhou Sun**, Yanglei Song, Jiawei Han, Yangqiu Song, Danli Wang, and Ming Zhang, “*RelSim: Relation Similarity Search in Schema-Rich Heterogeneous Information Networks*,” Proc of 2016 SIAM Int. Conf. on Data Mining (**SDM’16**), Miami, FL, May 2016.
35. Peng Xia, Benyuan Liu, **Yizhou Sun**, and Cindy X. Chen, “*Reciprocal Recommendation System for Online Dating*,” Proc. of 2015 Int. Conf. on Advances in Social Network Analysis and Mining (**ASONAM’15**), Paris, France, Aug. 2015.

36. Weiqing Wang, Hongzhi Yin, Ling Chen, **Yizhou Sun**, Shazia Wasim Sadiq, and Xiaofang Zhou, “*Geo-SAGE: A Geographical Sparse Additive Generative Model for Spatial Item Recommendation*,” Proc. of 2015 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD’15**), Sydney, Australia, Aug. 2015.
37. Yang Yang, **Yizhou Sun**, Jie Tang, Bo Ma, Juan-Zi Li, “*Entity Matching across Heterogeneous Sources*,” Proc. of 2015 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD’15**), Sydney, Australia, Aug. 2015.
38. Boliang Zhang, Hongzhao Huang, Xiaoman Pan, Sujian Li, Chin-Yew Lin, Heng Ji, Kevin Knight, Zhen Wen, **Yizhou Sun**, Jiawei Han, and Bulent Yener, “*Context-aware Entity Morph Decoding*,” Proc. of 53rd Annual Meeting of the Association for Computational Linguistics (**ACL’15**), Beijing, China, Jul. 2015.
39. Susan Collins, **Yizhou Sun**, Michal Kosinski, David Stillwell, Natasha Markuzon, “*Are You Satisfied with Life?: Predicting Satisfaction with Life from Facebook*,” Proc. of 2015 Int. Conf. on Social Computing, Behavioral-Cultural Modeling, Prediction (**SBP’15**), Washington DC, Mar. 2015.
40. Junxiang Chen, Wei Dai, **Yizhou Sun**, and Jennifer Dy, “*Clustering and Ranking in Heterogeneous Information Networks via Gamma-Poisson Model*,” Proc. of the 2015 SIAM Int. Conf. on Data Mining (**SDM’15**), Vancouver, BC, Canada, Apr. 2015.
41. Yang Yang, Jie Tang, Cane Wing-Ki Leung, **Yizhou Sun**, Qicong Chen, Juanzi Li, and Qiang Yang, “*RAIN: Social Role-Aware Information Diffusion*,” Proc. of the 29th AAAI Conf. on Artificial Intelligence (**AAAI’15**), Austin, Texas, USA, Jan 2015.
42. Huan Gui, **Yizhou Sun**, Jiawei Han, and George Brova, “*Modeling Topic Diffusion in Multi-Relational Bibliographic Information Networks*,” Proc. of 2014 ACM Int. Conf. on Information and Knowledge Management (**CIKM’14**), Shanghai, China, Nov. 2014. (KM Track acceptance rate: 95/457 = 21%)
43. Xiaozhong Liu, Yingying Yu, Chun Guo, and **Yizhou Sun**, “*Meta-Path-Based Ranking with Pseudo Relevance Feedback on Heterogeneous Graph for Citation Recommendation*,” Proc. of 2014 ACM Int. Conf. on Information and Knowledge Management (**CIKM’14**), Shanghai, China, Nov. 2014. (IR Track acceptance rate: 54/257 = 21%)
44. Xiaozhong Liu, Yingying Yu, Chun Guo, **Yizhou Sun**, and Liangcai Gao, “*Full-Text based Context-Rich Heterogeneous Network Mining Approach for Citation Recommendation*,” ACM/IEEE Joint Conference on Digital Libraries (**JCDL’14**), London, UK, Sept. 2014.
45. Yupeng Gu, **Yizhou Sun**, Bingyu Wang, Ning Jiang, Ting Chen, “*Topic-Factorized Ideal Point Estimation Model for Legislative Voting Network*,” Proc. 2014 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD’14**), New York City, NY, Aug. 2014. (Acceptance rate: 151/1036 = 14.6%)
46. Xiao Yu, Xiang Ren, **Yizhou Sun**, Quanquan Gu, Bradley Sturt, Urvashi Khandelwal, Brandon Norick, and Jiawei Han, “*Personalized Entity Recommendation in Heterogeneous Information Networks with Implicit User Feedback*,” Proc. 2014 ACM Int. Conf. on Web Search and Data Mining (**WSDM’14**), New York City, NY, Feb. 2014.
47. Hyungsul Kim, Xiang Ren, **Yizhou Sun**, Chi Wang, and Jiawei Han, “*Semantic Frame-Based Document Representation for Comparable Corpora*,” Proc. 2013 IEEE Int. Conf. on Data Mining (**ICDM’13**), Dallas, TX, Dec. 2013. (Regular paper, acceptance rate: 94/809=11.6%)
48. Hongzhi Yin, **Yizhou Sun**, Bin Cui, Zhiting Hu, Ling Liu, “*LCARS: A Location-Content-Aware Recommender System*,” Proc. of 2013 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD’13**), Chicago, IL, Aug. 2013. (Acceptance rate: 126/726 = 17.4%)
49. Hongzhao Huang, Zhen Wen, Dian Yu, Heng Ji, **Yizhou Sun**, Jiawei Han and He Li, “*Resolving Entity Morphs in Censored Data*,” Proc. of 2013 Annual Meeting of the Association for Computational Linguistics (**ACL’13**), Sofia, Bulgaria, Aug. 2013. (Acceptance rate: 176/662 = 26%)
50. Hyungsul Kim, **Yizhou Sun**, Julia Hockenmaier, and Jiawei Han, “*ETM: Entity Topic Models for Mining Documents Associated with Entities*,” Proc. of 2012 IEEE Int. Conf. on Data Mining (**ICDM’12**), Brussels, Belgium, Dec. 2012.

51. Yang Yang, Nitesh Chawla, **Yizhou Sun**, and Jiawei Han, “*Predicting Links in Multi-Relational and Heterogeneous Networks*,” Proc. of 2012 IEEE Int. Conf. on Data Mining (**ICDM’12**), Brussels, Belgium, Dec. 2012.
52. Manish Gupta, Jing Gao, **Yizhou Sun**, and Jiawei Han, “*Community Trend Outlier Detection Using Soft Temporal Pattern Mining*,” Proc. of 2012 European Conf. on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (**ECMLPKDD’12**), Bristol, UK, Sept. 2012.
53. **Yizhou Sun**, Brandon Norick, Jiawei Han, Xifeng Yan, Philip S. Yu, and Xiao Yu, “*Integrating meta-path selection with user-guided object clustering in heterogeneous information networks*,” Proc. of 2012 ACM Int. Conf. on Knowledge Discovery and Data Mining (**KDD’12**), Beijing, China, Aug. 2012.
54. Manish Gupta, Jing Gao, **Yizhou Sun**, and Jiawei Han, “*Integrating Community Matching and Outlier Detection for Mining Evolutionary Community Outliers*,” Proc. 2012 ACM Conf. on Knowledge Discovery and Data Mining (**KDD’12**), Beijing, China, Aug. 2012.
55. **Yizhou Sun**, Jiawei Han, Charu C. Aggarwal, and Nitesh Chawla, “*When Will It Happen?: Relationship Prediction in Heterogeneous Information Networks*,” Proc. 2012 ACM Int. Conf. on Web Search and Data Mining (**WSDM’12**), Seattle, WA, Feb. 2012. (Acceptance rate: $75/362 = 20.7\%$)
56. Lu-An Tang, Xiao Yu, Sangkyum Kim, Jiawei Han, Wen-Chih Peng, **Yizhou Sun**, Hector Gonzalez, and Sebastian Seith, “*Multidimensional Analysis of Atypical Events in Cyber-Physical Data*,” Proc. 2012 IEEE Int. Conf. on Data Engineering (**ICDE’12**), Arlington, VA, Apr. 2012. (Acceptance rate $\approx 20\%$)
57. **Yizhou Sun**, Rick Barber, Manish Gupta, Charu C. Aggarwal and Jiawei Han, “*Co-Author Relationship Prediction in Heterogeneous Bibliographic Networks*,” Proc. of 2011 Int. Conf. on Advances in Social Network Analysis and Mining (**ASONAM’11**), Kaohsiung, Taiwan, July 2011. (Acceptance rate: 25%)
58. Manish Gupta, Charu Aggarwal, Jiawei Han and **Yizhou Sun**, “*Evolutionary Clustering and Analysis of Bibliographic Networks*,” Proc. of 2011 Int. Conf. on Advances in Social Network Analysis and Mining (**ASONAM’11**), Kaohsiung, Taiwan, July 2011. (**Best Paper Award**, acceptance rate: 25%)
59. Jianbin Huang, Heli Sun, Jiawei Han, Hongbo Deng, **Yizhou Sun**, Yaguang Liu, “*SHRINK: A Structural Clustering Algorithm for Detecting Hierarchical Communities in Networks*,” Proc. 2010 ACM Int. Conf. on Information and Knowledge Management (**CIKM’10**), Toronto, Canada, Oct. 2010. (Acceptance rate: $127/945 = 13.4\%$)
60. Ming Ji, **Yizhou Sun**, Marina Danilevsky, Jiawei Han, Jing Gao, “*Graph Regularized Transductive Classification on Heterogeneous Information Networks*,” Proc. 2010 European Conf. on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (**ECML/PKDD’10**), Barcelona, Spain, Sept. 2010. (Acceptance rate: $120/658 = 18.24\%$)
61. Jing Gao, Feng Liang, Wei Fan, Chi Wang, **Yizhou Sun**, Jiawei Han, “*On Community Outliers and Their Efficient Detection in Information Networks*,” Proc. 2010 ACM SIGKDD Conf. on Knowledge Discovery and Data Mining (**KDD’10**), Washington D.C., July 2010. (Acceptance rate: 13.3%)
62. Cuiping Li, Jiawei Han, Xin Jin, **Yizhou Sun**, Yintao Yu, and Tianyi Wu, “*Fast Computation of SimRank for Static and Dynamic Information Networks*,” Proc. 2010 Int. Conf. on Extending Data Base Technology (**EDBT’10**), Lausanne, Switzerland, Mar. 2010. (Acceptance rate: $54/307 = 18\%$)
63. Tianyi Wu, **Yizhou Sun**, Cuiping Li, and Jiawei Han, “*Regionbased Online Promotion Analysis*,” Proc. 2010 Int. Conf. on Extending Data Base Technology (**EDBT’10**), Lausanne, Switzerland, Mar. 2010. (Acceptance rate: $54/307 = 18\%$)
64. **Yizhou Sun**, Jiawei Han, Jing Gao, and Yintao Yu, “*iTopicModel: Information Network-Integrated Topic Modeling*,” Proc. 2009 Int. Conf. on Data Mining (**ICDM’09**), Miami, FL, Dec. 2009. (Acceptance rate: $70/786 = 8.9\%$)
65. Jing Gao, Feng Liang, Wei Fan, **Yizhou Sun**, and Jiawei Han, “*Bipartite Graph-based Consensus Maximization among Supervised and Unsupervised Models*,” Proc. NIPS 2009 Neural Info. Processing Systems Conf. (**NIPS’09**), Vancouver, B.C., Canada, Dec. 2009. (Acceptance rate: $263/1105 = 23.8\%$)

66. Peixiang Zhao, Jiawei Han, **Yizhou Sun**, “*P-Rank: A Comprehensive Structural Similarity Measure over Information Networks*,” Proc. 2009 ACM Conf. on Information and Knowledge Management (**CIKM’09**), Hong Kong, China, Nov. 2009. (Acceptance rate: $123/847 = 14.5\%$)
67. **Yizhou Sun**, Yintao Yu, and Jiawei Han, “*Ranking-Based Clustering of Heterogeneous Information Networks with Star Network Schema*,” Proc. 2009 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD’09**), Paris, France, June 2009. (Full presentation, acceptance rate: $51/538 = 9.5\%$)
68. Jing Gao, Wei Fan, **Yizhou Sun**, and Jiawei Han, “*Heterogeneous Source Consensus Learning via Decision Propagation and Negotiation*,” Proc. 2009 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD’09**), Paris, France, June 2009. (Short presentation, acceptance rate: $(51+61)/538 = 20.8\%$)
69. **Yizhou Sun**, Jiawei Han, Peixiang Zhao, Zhijun Yin, Hong Cheng, and Tianyi Wu, “*RankClus: Integrating Clustering with Ranking for Heterogeneous Information Network Analysis*,” Proc. 2009 Int. Conf. on Extending Data Base Technology (**EDBT’09**), Saint-Petersburg, Russia, Mar. 2009. (Acceptance rate: $92/283 = 32.5\%$)
This work has also been selected as poster for “*The Third Annual DHS (Department of Homeland Security) University Network Summit*,” Washington, D.C., U.S., Mar. 2009.
70. Xiaolei Li, Jiawei Han, Zhijun Yin, Jae-Gil Lee, and **Yizhou Sun**, “*Sampling Cube: A Framework for Statistical OLAP over Sampling Data*,” Proc. 2008 ACM SIGMOD Int. Conf. on Management of Data (**SIGMOD’08**), Vancouver, BC, Canada, June 2008. (Acceptance rate: $78/435 = 17.9\%$)
71. Shan He, Cheng Hu, Guojie Song, Kunqing Xie, **Yizhou Sun**, “*Real-Time Short-Term Traffic Flow Forecasting Based on Process Neural Network*,” Proc. 5th Int. Symp. on Neural Networks, (**ISNN’08**), Beijing, China, Sept. 2008. (Acceptance rate: $192/522 = 36.7\%$)

Short and Poster Research Papers Published in Conference Proceedings

72. Xiaozhong Liu, Liangcai Gao, Noriko Hara, and **Yizhou Sun**, “*Open educational resource based information understanding via pdf document interaction*,” (poster), Proc. of the 2014 ACM Conf. on Web Science (**WebSci’14**), Bloomington, IN, June, 2014.
73. Boliang Zhang, Hongzhao Huang, Xiaoman Pan, Heng Ji, Kevin Knight, Zhen Wen, **Yizhou Sun**, Jiawei Han and Bulent Yener, “*Be Appropriate and Funny: Automatic Entity Morph Encoding*,” Proc. of 2014 Annual Meeting of the Association for Computational Linguistics (**ACL’14**), Baltimore, MD, June 2014. (Short paper)
74. Xiao Yu, Xiang Ren, **Yizhou Sun**, Bradley Sturt, Urvashi Khandelwal, Quanquan Gu, Brandon Norick, and Jiawei Han, “*HeteRec: Entity Recommendation in Heterogeneous Information Networks with Implicit User Feedback*,” Proc. of 2013 ACM Int. Conf. Series on Recommender Systems (**RecSys’13**), Hong Kong, China, Oct. 2013. (Short paper, acceptance rate: $52/143=36.4$)
75. Xiao Yu, **Yizhou Sun**, Brandon Norick, Tiancheng Mao, and Jiawei Han, “*User Guided Entity Similarity Search Using Meta-Path Selection in Heterogeneous Information Networks*,” Proc. of 2012 Int. Conf. on Information and Knowledge Management (**CIKM’12**), Maui, Hawaii, Oct. 2012
76. Yang Yang, **Yizhou Sun**, Saurav Pandit, Nitesh Chawla and Jiawei Han, “*Is Objective Function the Silver Bullet? A Case Study of Community Detection Algorithms on Social Networks*,” Proc. of 2011 Int. Conf. on Advances in Social Network Analysis and Mining (**ASONAM’11**), Kaohsiung, Taiwan, July 2011. (Short paper, acceptance rate: unknown) [Note: Full paper has been invited to be submitted to a forthcoming book, edited by Tansel Ozyer, et al. to be published by Springer.]
77. Manish Gupta, **Yizhou Sun**, and Jiawei Han, “*Trust Analysis with Clustering*,” Proc. of 2011 Int. World Wide Web Conf. (**WWW’11**), Hyderabad, India, Mar. 2011. (Poster paper, acceptance rate: $62/202 = 30.7\%$)
78. **Yizhou Sun**, Kunqing Xie, Ning Liu, Shuicheng Yan, Benyu Zhang, and Zheng Chen, “*Causal Relation of Queries from Temporal Logs*,” Proc. 16th Int. Conf. on World Wide Web (**WWW’07**), Banff, Alberta, Canada, May 2007. (Poster paper, acceptance rate $\approx 35\%$)

Other Publications: Demo Papers, Workshop Papers and Tutorial Papers

79. **Yizhou Sun**, Hongzhi Yin, Xiang Ren, “*Recommendation in Context-Rich Environment: An Information Network Analysis Approach*,” (Conference Tutorial), Proc. of the 26th Int. Conf. on World Wide Web Companion (**WWW’17**), Perth, Australia, Apr. 2017.

80. **Yizhou Sun**, “*User Stance Prediction via Online Behavior Mining*,” (Workshop Keynote), Proc. of the 26th Int. Conf. on World Wide Web Companion (**WWW’17**), Perth, Australia, Apr. 2017.
81. Alex D. Wade, Kuansan Wang, **Yizhou Sun**, and Antonio Gulli, “*WSDM Cup 2016: Entity Ranking Challenge*,” Proc. 2016 ACM Int. Conf. on Web Search and Data Mining (**WSDM’16**), San Francisco, California, USA, Feb. 2016.
82. Jiawei Han, Heng Ji, and **Yizhou Sun**, “*Successful Data Mining Methods for NLP*,” Proc. of 53rd Annual Meeting of the Association for Computational Linguistics (**ACL’15**), Beijing, China, Jul. 2015.
83. Y. Chodpathumwan, A. Aleyasen, A. Termehchy, and **Y. Sun**, “*Universal-DB: towards representation independent graph analytics*,” Proceedings of the VLDB Endowment 8 (12), 2016-2019, 2015.
84. Y. Chodpathumwan, A. Termehchy, **Yizhou Sun**, A. Aleyasin, and J. Picado, “*Toward Representation Independent Similarity Search Over Graphs*,” ACM Proceedings of Workshop on GRAPh Data management Experiences and Systems (**GRADES’14**), Snowbird, UT, June 2014.
85. Fangbo Tao, Jiawei Han, Heng Ji, George Brova, Chi Wang, Ahmed El-Kishky, Jialu Liu, Xiang Ren, **Yizhou Sun**, “*NewsNetExplorer: Automatic Construction and Exploration of News Information Networks*,” (system demo), Proc. of 2014 ACM SIGMOD Int. Conf. on Management of Data (**SIGMOD’14**), Snowbird, UT, June 2014.
86. Xiao Yu, Xiang Ren, Quanquan Gu, **Yizhou Sun**, and Jiawei Han, “*Collaborative Filtering with Entity Similarity Regularization in Heterogeneous Information Networks*,” Proc. of IJCAI-13 HINA workshop (**IJCAI-HINA’13**), Beijing, China, Aug. 2013.
87. Fangbo Tao, Xiao Yu, Kin Hou Lei, George Brova, Xiao Cheng, Jiawei Han, Rucha Kanade, **Yizhou Sun**, Chi Wang, Lidan Wang, Tim Weneringer, “*Research-Insight: Providing Insight on Research by Publication Network Analysis*,” (system demo), Proc. of 2013 ACM SIGMOD Int. Conf. on Management of Data (**SIGMOD’13**), New York City, NY, June 2013.
88. **Yizhou Sun**, Jiawei Han, Xifeng Yan, and Philip S. Yu, “*Mining Knowledge from Interconnected Data: A Heterogeneous Information Network Analysis Approach*,” PVLDB 5(12): 2022-2023, 2012. (Conference tutorial at 2012 Int. Conf. on Very Large Data Bases (**VLDB’12/PVLDB**), Istanbul, Turkey, Aug. 2012.
89. Xiao Yu, **Yizhou Sun**, Peixiang Zhao, Jiawei Han, “*Query-Driven Discovery of Semantically Similar Substructures in Heterogeneous Networks*,” Proc. of 2012 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (**KDD’12**), Beijing, China, Aug. 2012. (System demo paper)
90. Jiawei Han, **Yizhou Sun**, Xifeng Yan, and Philip S. Yu, “*Mining Knowledge from Data: An Information Network Analysis Approach*,” Proc. 2012 IEEE Int. Conf. on Data Engineering (**ICDE’12**), Arlington, VA, Apr. 2012. (Conference tutorial, 5 pages)
91. Tim Weneringer, Marina Danilevsky, Fabio Fumarola, Joshua Hailpern, Jiawei Han, Ming Ji, Thomas J. Johnston, Surya Kallumadi, Hyungsul Kim, Zhijin Li, David McCloskey, **Yizhou Sun**, Nathan E. TeGrotenhuis, Chi Wang, and Xiao Yu, “*WinaCS: Construction and Analysis of Web-Based Computer Science Information Networks*,” Proc. 2011 ACM SIGMOD Int. Conf. on Management of Data (**SIGMOD’11**), Athens, Greece, June 2011. (System demo paper, acceptance rate $\approx 35\%$)
92. Hieu Khac Le, Jeff Pasternack, Hossein Ahmadi, Manish Gupta, **Yizhou Sun**, Tarek Abdelzaher, Jiawei Han, Dan Roth, Boleslaw K. Szymanski, S. Adali, “*Apollo: Towards Factfinding in Participatory Sensing*,” Proc. ACM/IEEE International Conference on Information Processing in Sensor Networks (**IPSN’11**), Chicago, IL, Apr. 2011. (System demo paper, acceptance rate: unknown)
93. **Yizhou Sun**, Jie Tang, Jiawei Han, Manish Gupta, and Bo Zhao, “*Community Evolution Detection in Dynamic Heterogeneous Information Networks*,” Proc. 2010 KDD Workshop on Mining and Learning with Graphs (**MLG’10**), Washington, D.C., July 2010. (Workshop paper, acceptance rate: unknown)
94. Jiawei Han, **Yizhou Sun**, Xifeng Yan, and Philip S. Yu, “*Mining Knowledge from Databases: An Information Network Analysis Approach*,” Proc. 2010 ACM SIGMOD Int. Conf. on Management of Data (**SIGMOD’10**), Indianapolis, Indiana, June 2010. (Conference Tutorial, 2 pages)

95. Yintao Yu, Cindy X. Lin, **Yizhou Sun**, Chen Chen, Jiawei Han, Binbin Liao, Tianyi Wu, ChengXiang Zhai, Duo Zhang, and Bo Zhao, “*iNextCube: Information Network-Enhanced Text Cube*,” Proc. 2009 Int. Conf. on Very Large Data Bases (**VLDB’09**), Lyon, France, Aug. 2009. (System demo paper, acceptance rate: 29/107 = 27.1%)
96. **Yizhou Sun**, Tianyi Wu, Zhijun Yin, Hong Cheng, Jiawei Han, Xiaoxin Yin, and Peixiang Zhao, “*BibNet-Miner: Mining Bibliographic Information Networks*,” Proc. 2008 ACM SIGMOD Int. Conf. on Management of Data (**SIGMOD’08**), Vancouver, BC, Canada, June 2008. (System demo paper, acceptance rate: 30/94 = 31.9%)

Grants

Co-PI: FY17 UCLA Transdisciplinary Seed Grants (TSG), “*Querying and Constructing the SSWL database: Tools for Linguistic Theory*,” \$40K (2017-2018)

PI: National Science Foundation (NSF) (1705169), “*III: Medium: Collaborative Research:StrucNet: Constructing and Mining Structure-Rich Information Networks for Scientific Research*,” \$1.2M (UCLA portion: \$400K, 2017-2021)

PI: National Science Foundation (NSF) (CAREER Award #1453800/#1741634), “*CAREER: Mining and Exploring Heterogeneous Information Networks with Social Factors*,” \$501K (2015-2020)

Co-PI: Northeastern TIER I, “*Mining Big Heterogeneous Networks: Scalable Parallel Algorithms and Effective Scheduling*,” \$50K (2014-2015)

Co-PI: Northeastern TIER 1, “*Finding Underlying Manifolds of Large-Scale Complex Biosignal Dynamics*,” \$50K (2013-2014)

Yahoo! ACE (Academic Career Enhancement) Award, \$10K (discretionary funds)

Professional Service

Panelist: NSF Panel (2014 - 2016)

Editorial Board:

Data Mining and Knowledge Discovery (DMKD) (2016 -)

Information System (2016 -)

Conference/Workshop Program Committee Co-Chair or Senior PC:

2017 The 26th Conference on Information and Knowledge Management (CIKM’17), Singapore, Nov. 6-10, Senior PC.

2017 The 23rd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD’17), Halifax, Nova Scotia, Canada, Aug. 13-17, Best Paper Award Committee of Data Science Track.

2017 The 23rd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD’17), Halifax, Nova Scotia, Canada, Aug. 13-17, Senior PC of Research Track.

2017 SIAM Conference on Data Mining (SDM’17), Houston, Texas, April 27-29, Senior PC.

2016 The 22nd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD’16), Senior PC.

2016 The 9th ACM International Conference on Web Search and Data Mining (WSDM’16), WSDM Cup Co-Chair.

2016 The 25th International World Wide Web Conference (WWW’16) Web Mining Track Chair.

2015 The 16th International Conference on Web-Age Information Management (WAIM’15), Publication Chair.

2015 Workshop on Heterogeneous Information Network Analysis (HINA’15) in conjunction with IJCAI2015, Co-Chair.

2014 The 14th IEEE International Conference on Data Mining (IEEE ICDM 2014) PhD Forum, Co-Chair.

2013 Mining Data Semantics in Heterogeneous Information Networks Workshop (MDS'13) in conjunction with SIGKDD2013, Co-Chair.

2013 Workshop on Heterogeneous Information Network Analysis (HINA'13) in conjunction with IJCAI2013, Co-Chair.

2011 The Seventh International Conference on Advanced Data Mining and Application (ADMA'11), Vice PC Co-chair.

Other Program Committee Service: SIGMOD PhD Forum (2016), VLDB (2016-18), ICDE (2016-17), KDD (2014-17), NIPS (2015), ICML (2015), WWW (2015-17), AAAI (2014, 2016-2017), WSDM (2014-15, 2017), ICDM (2013-17), CIKM (2013, 2015-2017), IJCNLP (2013), BigData (2013), ODBASE (2013), IJCAI (2013,2016-2017), PAKDD (2013-14), SDM (2013-17), ASONAM (2012-16), ADMA (2011-12), APWeb (2014)